PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUL FENSTER	PCT		
FENSTER & CO, INTELLECTUAL PROPERTY LTD. P.O. BOX 10256 PETACH TIKVA, 49002 ISRAEL	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
17 JUL 2008 FILE No. 37703	(PCT Rule 44.1)		
GE BARRION (1001) 1715	Date of mailing (day/month/year) 12 JUN 2008		
Applicant's or agent's file reference 416/04363	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/IL05/00355	International filing date (day/month/year) 29 March 2005 (29.03.2005)		
Applicant POLYNEST TECHNOLOGIES, LTD.			
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	ims of the international application (see Rule 46)		
	normallytwo months from the date of transmittal of the international		
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:	, 34 chemin des Colombettes (41-22) 338.82.70.		
For more detailed instructions, see the notes on the ac	ccompanying sheet.		
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the hternational Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additi			
	n transmitted to the International Bureau together with the applicant's		
no decision has been made yet on the protest;the appl			
4. Reminders			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the app Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,		
Name and mailing address of the ISA/US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Len Tran Convariant Telephone No. (571) 272-3750		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Telephone No. (571) 272-3750		
Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)		

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 416/04363		500 TOTAL TO 11101 D 220		
International application No. PCT/IL05/00355	International filing date (day/month/year) 29 March 2005 (29.03.2005)	(Earliest) Priority Date (day/month/year) 29 March 2004 (29.03.2004)		
Applicant POLYNEST TECHNOLOGIES, LTD.				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of: the international application in the language in which it was filed. a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 Rule 43.6 bis(a) c With regard to any nucleotide and/or amino acid sequencedisclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) Unity of invention is lacking (See Box No. III) 4. With regard to the title, the text is approved as submitted by the applicant.				
the text has been established	by this Authority to read as follows:			
5. With regard to the abstract, the text is approved as subm the text has been established may, within one month from	itted by the applicant. , according to Rule 38.2(b), by this Authority at the date of mailing of this international search	as it appears in Box No. IV. The applicant a report, submit comments to this Authority.		
as suggested by the	Authority, because the applicant failed to suggestathority, because this figure better characterizations.			

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00355

A. CLASSIFICATION OF SUBJECT MATTER IPC: B67D 5/58(2006.01),5/52(2006.01),5/60(2006.01);B05B 9/03(2006.01),1/24(2006.01),7/02(2006.01),1/20(2006.01)			
USPC: 222/190,137,145.6,145.5;239/146,134,526,159			
According to International Patent Classification (IPC) or to both national	al classification and IPC		
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 222/190,137,145.6,145.5; 239/146,134,526,159;			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of o	data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where appro	priate, of the relevant passages Relevant to claim No.		
X US 6,533,189 B2 (KOTT et al) 18 March 2003 (18.03.20	03), column 3, line 52 thru column 1-57		
14, line 49. US 6,554,207 B2 (EBBERTS) 29 April 2003 (29.04.2003) line 4.	3), column 6, line 48 thru column 9,		
A US 20040084552 A1 (HUARTSON) 6 May 2004 (06.05.	.2004), paragraphs 45 thur 52. 1-57		
A US 5,381,962 A (TEAGUE) 17 January 1995 (17.01.199	5), column 4, line 14 thru column 9,		
line 20. US 4,019,652 (SUH et al) 26 April 1977 (26.04.1977), ec 33.	olumn 1, line 14 thru column 10, line		
Further documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "T"	date and not in conflict with the application but cited to understand the		
"A" document defining the general state of theart which is not considered to be of particular relevance	principle or theory underlying the invention		
"E" carlier application or patent published on or after the international filing date	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			
"O" document referring to an oral disclosure, use, exhibition or other means	with one or more other such documents, such combination being obvious to a person skilled in the art		
"P" document published prior to the international filing date but later than the priority date claimed "&"	document member of the same patent family .		
Date of the actual completion of the international search Date of mailing of the international search report			
04 June 2008 (04.06.2008) 1 2 JUN 2008			
Mail Stop PCT, Attn: ISA/US	thorized officer Www.Health		
P.O. Box 1450	en Tran (1907) 272-3750 (571) 272-3750		
Alexandria, Virginia 22313-1450 Tel Facsimile No. (571) 273-3201	lephone No. (571) 272-3750		

Form PCT/ISA/210 (second sheet) (April 2007)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT PAUL FENSTER FENSTER & CO. INTELLECTUAL PROPERTY LTD. P.O. BOX 10256 WRITTEN OPINION OF THE PETACH TIKVA, 49002 INTERNATIONAL SEARCHING AUTHORITY ISRAEL (PCT Rule 43bis.1) Date of mailing 1 2 JUN 2008 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 416/04363 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/IL05/00355 29 March 2005 (29.03.2005) 29 March 2004 (29.03.2004) International Patent Classification (IPC) or both national classification and IPC TPC: Please See Continuation Sheet USPC: 222/190,137,145.6,145.5;239/146,134,526,159 Applicant POLYNEST TECHNOLOGIES, LTD 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43 bis. 1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion

04 June 2008 (04,06,2008)

Authorized offic

Telephone No. (571)

Len Tran

Facsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April 2007)

P.O. Box 1450

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

Alexandria, Virginia 22313-1450

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00355

Box No	o. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of:					
\boxtimes	the international application in the language in which it was filed				
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).				
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this				
	Authority under Rule 91 (Rule 43bis.1(a)) regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been				
establi	ished on the basis of:				
. a.	type of material				
	a sequence listing				
	table(s) related to the sequence listing				
b.	format of material				
	on paper				
	in electronic form				
C.	time of filing/furnishing				
	contained in the international application as filed.				
	filed together with the international application in electronic form.				
	furnished subsequently to this Authority for the purposes of search.				
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed				
	or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
5. Additi	onal comments:				
	•				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00355

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		•	
	Novelty (N)	Claims	NONE	YES
		Claims	1-57	NO
			•	
	Inventive step (IS)	Claims	NONE '	YES
		Claims	1-57	NO
	Industrial applicability (IA)	Claims	1-57	YES
		Claims	NONE	NO

2. Citations and explanations:

Claims 1-57 lack novelty under PCT Article 33(2) as being anticipated by Kott et al (US 6,533,189).

In regard to Claims 1-57, Kott et al teach a chemical mixing device having a flow generator(30) that provides at least two streams of chemicals (26,28) and a mixing chamber (90) that includes at least two inlets adapted to receive the at least two streams of chemicals (26,28) and an outlet (92) through which a mixture of the streams of chemicals (26,28) are ejected from the mixing device (90) and the mixing chamber (90) has an open state in which the chemicals are mixed and a closed state in which the volume of the mixing chamber is less then a fifth of the open state volume. The mixing chamber (90) has a substantially zero volume in the closed state and the mixing chamber (90) has walls that are biased closed in which the walls are pressed against each other. The volume of the mixing chamber (90) from a first mixing point of the streams to the outlet is not greater than 20 cubic millimeters and the chamber (90) is formed of a flexible material. A flow regulator (92) prevents flow into the mixing chamber unless the chemical streams from the flow generator have a pressure above a threshold of at least 2 bar. At least two channels have a decreasing cross section area that is adapted to lead the chemical streams to the inlets of the mixing chamber (90). A first volume when the flow generator is not operating and a second larger volume when the flow generator induces flow of the chemicals into the mixing chamber (90). The mixing device of Kott et al is packaged with the mixing chamber, generator capable of being inside the package. A nozzle (44) is also defined by the mixing chamber (90).

Claims 1-57 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00355

Supplemental Box In case the space in any of the preceding boxes is not sufficient.	1
Continuation of IPC: B67D 5/58(2006.01),5/52(2006.01),5/60(2006.01);B05B 9/03(2006.01),1/24(2006.	.01),7/02(2006.01),1/20(2006.01)
*	
	¥.
	4
	*
	± .